CLAIMS:

 A method of recovering location information of a subscriber in a mobile network, the method comprising:

forwarding a registration request from the subscriber to an S-CSCF (Serving-Call State Control Function) including the subscriber's TA (Transport Address);

forwarding a location update from the S-CSCF to an HSS (Home Subscription Server) including the subscriber's TA and the S-CSCF address; and

storing data including the subscriber's in the HSS so as to be protected against loss.

- 2. The method of claim 1, wherein, upon the S-CSCF losing data, lost data including the subscriber's TA may be restored to the S-CSCF from the data stored in the HSS.
- 3. The method of claim 1, wherein storing data in the HSS comprises storing data in a non-volatile memory in the HSS.
- 4. The method of claim 3, wherein storing data in a non-volatile memory in the HSS comprises storing data in a hard disk drive.
- 5. A method of recovering location information of a subscriber in a mobile network, the method comprising:

forwarding a registration request from the subscriber to an S-CSCF (Serving-Call State Control Function) including the subscriber's TA (Transport Address);

forwarding a location update from the S-CSCF to an HSS (Home Subscription Server) including the subscriber's TA; and

storing data including the subscriber's TA in the S-CSCF so as to be protected against loss.

- 6. The method of claim 5, wherein, upon the S-CSCF losing data, lost data including the subscriber's TA may be restored to the S-CSCF from the data stored in a non-volatile memory in the S-CSCF.
- The method of claim 6, wherein storing data in a non-volatile memory in the S-CSCF comprises storing data in a hard disk drive.
- 8. A program storage device readable by a machine, tangibly embodying a program of instructions executable by the machine to perform a method of recovering location information of a subscriber in a mobile network, the method comprising:

forwarding a registration request from the subscriber to an S-CSCF (Serving-Call State Control Function) including the subscriber's TA (Transport Address);

forwarding a location update from the S-CSCF to an HSS $(Home\ Subscription\ Server)$ including the subscriber's TA and the S-CSCF address; and

storing data including the subscriber's TA in the HSS so as to be protected against loss.

9. The program storage device of claim 8, wherein, upon the S-CSCF losing data, lost data including the subscriber's TA may be restored to the S-CSCF from the data stored in the HSS.

- 10. The program storage device of claim 8, wherein storing data in the HSS comprises storing data in a non-volatile memory in the HSS.
- 11. The program storage device of claim 10, wherein storing data in a non-volatile memory in the HSS comprises storing data in a hard disk drive.
- 12. A program storage device readable by a machine, tangibly embodying a program of instructions executable by the machine to perform a method of recovering location information of a subscriber in a mobile network, the method comprising:

forwarding a registration request from the subscriber to an S-CSCF (Serving-Call State Control Function) including the subscriber's TA (Transport Address);

forwarding a location update from the S-CSCF to an HSS (Home Subscription Server) including the subscriber's TA; and

storing data including the subscriber's TA in the S-CSCF so as to be protected against loss.

- 13. The program storage device of claim 10, wherein, upon the S-CSCF losing data, lost data including the subscriber's TA may be restored to the S-CSCF from the data stored in a non-volatile memory in the S-CSCF.
- 14. The program storage device of claim 13, wherein storing data in a non-volatile memory in the S-CSCF comprises storing data in a hard disk drive.

15. A method of recovering location information of a subscriber in a mobile network, the method comprising:

upon an S-CSCF (Serving-Call State Control Function) receiving a call setup request for the subscriber from an I-CSCF (Interrogating-Call State Control Function), forwarding a route request to a UMS (User Mobility Server) and receiving a home address of the subscriber;

forwarding the call setup request from the S-CSCF to a home agent at the home address of the subscriber;

forwarding the call setup request from the home agent to the subscriber; and

 $\label{eq:continuous} \mbox{forwarding an address update from the subscriber to the $S\text{-CSCF}$.}$

- 16. The method of claim 15, wherein forwarding the request to the UMS comprises forwarding an indication to the UMS that the S-CSCF fails to have a Care-Of Address of the subscriber.
- 17. The method of claim 15, wherein forwarding the call setup request from the home agent to the subscriber comprises forwarding the call setup request to a Care-Of Address of the subscriber.
- 18. The method of claim 16, wherein forwarding the call setup request from the home agent to the subscriber comprises forwarding the call setup request to a Care-Of Address of the subscriber.
- 19. A method of recovering location information of a subscriber in a mobile network, the method comprising:

subscriber: and

upon an I-CSCF (Interrogating-Call State Control Function) receiving a call setup request for the subscriber, forwarding a route request to a UMS (User Mobility Server) and receiving a home address of the subscriber;

forwarding the call setup request from the I-CSCF to a home agent at the home address of the subscriber; forwarding the call setup request from the home agent to the

forwarding an address update from the subscriber to the I-CSCF.

- 20. The method of claim 19, wherein forwarding the call setup request from the home agent to the subscriber comprises forwarding the call setup request to a Care-Of Address of the subscriber.
- 21. A program storage device readable by a machine, tangibly embodying a program of instructions executable by the machine to perform a method of recovering location information of a subscriber and a mobile network, the method comprising:

upon an S-CSCF (Serving-Call State Control Function) receiving a call setup request for the subscriber from an I-CSCF (Interrogating-Call State Control Function), forwarding a route request to a UMS (User Mobility Server) and receiving a home address of the subscriber;

forwarding the call setup request from the S-CSCF to a home agent at the home address of the subscriber;

forwarding the call setup request from the home agent to the subscriber; and

 $\label{eq:continuous} \mbox{forwarding an address update from the subscriber to the $S-CSCF$}$

- 22. The program storage device of claim 21, wherein forwarding the request to the UMS comprises forwarding an indication to the UMS that the S-CSCF fails to have a Care-Of Address of the subscriber.
- 23. The program storage device of claim 21, wherein forwarding the call setup request from the home agent to the subscriber comprises forwarding the call setup request to a Care-Of Address of the subscriber.
- 24. The program storage device of claim 22, wherein forwarding the call setup request from the home agent to the subscriber comprises forwarding the call setup request to a Care-Of Address of the subscriber.
- 25. A program storage device readable by a machine, tangibly embodying a program of instructions executable by the machine to perform a method of recovering location information of a subscriber and a mobile network, the method comprising:

upon an I-CSCF (Interrogating-Call State Control Function) receiving a call setup request for the subscriber, forwarding a route request to a UMS (User Mobility Server) and receiving a home address of the subscriber;

forwarding the call setup request from the I-CSCF to a home agent at the home address of the subscriber;

forwarding the call setup request from the home agent to the subscriber; and

 $\label{eq:forwarding} \mbox{forwarding an address update from the subscriber to the $\mbox{$I-CSCF}$.}$

- 26. The program storage device of claim 25, wherein forwarding the request to the UMS comprises forwarding an indication to the UMS that the S-CSCF fails to have a Care-Of Address of the subscriber.
- 27. The program storage device of claim 25, wherein forwarding the call setup request from the home agent to the subscriber comprises forwarding the call setup request to a Care-of Address of the subscriber.
- 28. The program storage device of claim 26, wherein forwarding the call setup request from the home agent to the subscriber comprises forwarding the call setup request to a Care-of Address of the subscriber.